

Please type a plus sign (+) inside this box +

PTO/SB/01 (12-97)  
Approved for use through 9/30/00 OMB 0651-0032  
Patent and Trademark Office. U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number



|   |                          |               |
|---|--------------------------|---------------|
| <b>DECLARATION FOR UTILITY OR<br/>DESIGN<br/>PATENT APPLICATION<br/>(37 CFR 1.63)</b><br><br><input type="checkbox"/> Declaration<br>Submitted<br>with Initial<br>Filing      OR <input checked="" type="checkbox"/> Declaration<br>Submitted after Initial<br>Filing (surcharge<br>(37 CFR 1.16(e))<br>required) | Attorney Docket Number   | 24717-705     |
|   | First Named Inventor     | John G. Leddy |
|   | <i>COMPLETE IF KNOWN</i> |               |
|   | Application Number       | 09/903,441    |
|   | Filing Date              | July 10, 2001 |
|   | Group Art Unit           | 2152          |
|   | Examiner Name            | Unassigned    |

As a below named inventor, I hereby declare that.

My residence, post office address, and citizenship are as stated below next to my name

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**ROUTING INFORMATION EXCHANGE**

(Title of the Invention)

the specification of which

☐ is attached hereto

OR

☒ was filed on (MM/DD/YYYY)

07/10/2001

as United States Application Number or PCT International

Application Number 09/903,441 and was amended on (MM/DD/YYYY) ☐ (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed

| Prior Foreign Application Number(s) | Country | Foreign Filing Date (MM/DD/YYYY) | Priority Not Claimed     | Certified Copy Attached? |                          |
|-------------------------------------|---------|----------------------------------|--------------------------|--------------------------|--------------------------|
|                                     |         |                                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|                                     |         |                                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|                                     |         |                                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|                                     |         |                                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/028 attached hereto


I hereby claim the benefit under 35 U.S.C. 119(h) of any United States provisional application(s) listed below

| Application Number(s) | Filing Date (MM/DD/YYYY) | <input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/028 attached hereto |
|-----------------------|--------------------------|---|
| 60/241,450            | 10/17/2000               |   |
| 60/275,206            | 03/12/2001               |   |

(Page 1 of 2)

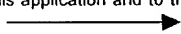
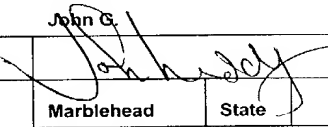
**Burden Hour Statement:** This form is estimated to take 0.4 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO Commissioner for Patents, Washington, DC 20231**

COPY OF PAPERS  
ORIGINALLY FILED

Please Type a plus sign (+) inside this box 

PTO/SB/01 (12-97)  
Approved for use through 9/30/00 OMB 0651-0032  
Patent and Trademark Office U S DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| DECLARATION — Utility or Design Patent Application   |   |                     |              |   |       |                                      |          |
|--|---|---------------------|--------------|---|-------|--------------------------------------|----------|
| I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of the application is not designated in the prior United States or PCT international application in the manner provided by the first paragraph of 31 U.S.C. 112 I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application |   |                     |              |   |       |                                      |          |
| U.S. Parent Application or PCT Parent Number   |   |                     |              | Parent Filing Date (MM/DD/YYYY)   |       | Parent Patent Number (if applicable) |          |
|  |   |                     |              |   |       |                                      |          |
| <input type="checkbox"/> Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/028 attached hereto.   |   |                     |              |   |       |                                      |          |
| As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: <input checked="" type="checkbox"/> Customer Number <u>021971</u>  <div style="border: 1px solid black; padding: 2px; display: inline-block;">Place Customer Number Bar Code Label here</div>  |   |                     |              |   |       |                                      |          |
| <input type="checkbox"/> OR <input type="checkbox"/> Registered practitioner(s) name/registration number listed below  |   |                     |              |   |       |                                      |          |
| Name   |   | Registration Number |              | Name  |       | Registration Number                  |          |
|  |   |                     |              |   |       |                                      |          |
| <input type="checkbox"/> Additional registered practitioner(s) named on supplemental Registered Practitioner Information sheet PTO/SB/02C attached hereto  |   |                     |              |   |       |                                      |          |
| Direct all correspondence to <input checked="" type="checkbox"/> Customer Number or Bar Code Label <u>021971</u> OR <input type="checkbox"/> Correspondence address below  |   |                     |              |   |       |                                      |          |
| Name   | Kenta Suzue   |                     |              |   |       |                                      |          |
| Address  | Wilson Sonsini Goodrich & Rosati  |                     |              |   |       |                                      |          |
| Address  | 650 Page Mill Road  |                     |              |   |       |                                      |          |
| City   | Palo Alto   | State               | CA           | ZIP   | 94304 |                                      |          |
| Country  | U.S.  | Telephone           | 650-493-9300 |   | Fax   | 650-493-6811                         |          |
| I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.  |   |                     |              |   |       |                                      |          |
| Name of Sole or First Inventor:  |   |                     |              | <input type="checkbox"/> A petition has been filed for this unsigned inventor |       |                                      |          |
| Given Name (first and middle (if any))   |   |                     |              | Family Name or Surname  |       |                                      |          |
| John G.  |   |                     |              | Leddy   |       |                                      |          |
| Inventor's Signature   |  |                     |              |   |       | Date                                 | 10/15/01 |
| Residence: City  | Marblehead  | State               | MA           | Country   | US    | Citizenship                          | US       |
| Post Office Address  | 1 Corinthian Lane, Marblehead, MA 01947   |                     |              |   |       |                                      |          |
| Post Office Address  |   |                     |              |   |       |                                      |          |
| City   | Marblehead  | State               | MA           | ZIP   | 01947 | Country                              | US       |
| <input checked="" type="checkbox"/> Additional inventors are being named on the 2 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto  |   |                     |              |   |       |                                      |          |

(Page 2 of 2)

Please Type a plus sign (+) inside this box +

PTO/SB/02A (3-97)  
Approved for use through 9/30/98, OMB 0651-0032  
Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

COPY OF PAPERS  
ORIGINALLY FILED



|                    |  |
|--------------------|--|
| <b>DECLARATION</b> | <b>ADDITIONAL INVENTOR(S)</b><br>Supplemental Sheet<br>Page 1 of 2 |
|--------------------|--|

|   |  |                      |  |   |      |    |           |         |  |       |  |             |  |    |  |
|---|--|----------------------|--|---|------|----|-----------|---------|--|-------|--|-------------|--|----|--|
| <b>Name of Additional Joint Inventor, if any:</b> |  |                      |  | <input type="checkbox"/> A petition has been filed for this unsigned inventor |      |    |           |         |  |       |  |             |  |    |  |
| Given Name (first and middle (if any))            |  |                      |  | Family Name or Surname  |      |    |           |         |  |       |  |             |  |    |  |
| Michael A.  |  |                      |  | Lloyd   |      |    |           |         |  |       |  |             |  |    |  |
| Inventor's Signature                              |  | <i>Michael Lloyd</i> |  |   | Date |    | 10/11/01  |         |  |       |  |             |  |    |  |
| Residence: City                                   |  | San Carlos           |  | State   |      | CA |           | Country |  | US    |  | Citizenship |  | US |  |
| Post Office Address                               |  |                      |  | 160 Arundel Road, San Carlos, CA 94070  |      |    |           |         |  |       |  |             |  |    |  |
| Post Office Address                               |  |                      |  |   |      |    |           |         |  |       |  |             |  |    |  |
| City  |  | San Carlos           |  | State   |      | CA |           | ZIP     |  | 94070 |  | Country     |  | US |  |
| <b>Name of Additional Joint Inventor, if any:</b> |  |                      |  | <input type="checkbox"/> A petition has been filed for this unsigned inventor |      |    |           |         |  |       |  |             |  |    |  |
| Given Name (first and middle (if any))            |  |                      |  | Family Name or Surname  |      |    |           |         |  |       |  |             |  |    |  |
| Sean P.   |  |                      |  | Finn  |      |    |           |         |  |       |  |             |  |    |  |
| Inventor's Signature                              |  | <i>Sean P. Finn</i>  |  |   | Date |    | 10.1.2001 |         |  |       |  |             |  |    |  |
| City  |  | Belmont              |  | State   |      | CA |           | Country |  | US    |  | Citizenship |  | US |  |
| Post Office Address                               |  |                      |  | 1533 Escondido Way, Belmont, CA 94002   |      |    |           |         |  |       |  |             |  |    |  |
| Post Office Address                               |  |                      |  |   |      |    |           |         |  |       |  |             |  |    |  |
| City  |  | Belmont              |  | State   |      | CA |           | ZIP     |  | 94002 |  | Country     |  | US |  |
| <b>Name of Additional Joint Inventor, if any:</b> |  |                      |  | <input type="checkbox"/> A petition has been filed for this unsigned inventor |      |    |           |         |  |       |  |             |  |    |  |
| Given Name (first and middle (if any))            |  |                      |  | Family Name or Surname  |      |    |           |         |  |       |  |             |  |    |  |
| James G.  |  |                      |  | McGuire   |      |    |           |         |  |       |  |             |  |    |  |
| Inventor's Signature                              |  | <i>James McGuire</i> |  |   | Date |    | 10/12/01  |         |  |       |  |             |  |    |  |
| City  |  | San Francisco        |  | State   |      | CA |           | Country |  | US    |  | Citizenship |  | US |  |
| Post Office Address                               |  |                      |  | 2312 Gough Street, San Francisco, CA 94019                                    |      |    |           |         |  |       |  |             |  |    |  |
| Post Office Address                               |  |                      |  |   |      |    |           |         |  |       |  |             |  |    |  |
| City  |  | San Francisco        |  | State   |      | CA |           | ZIP     |  | 94019 |  | Country     |  | US |  |

**Burden Hour Statement:** This form is estimated to take 0.4 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231**

Please Type a plus sign (+) inside this box +

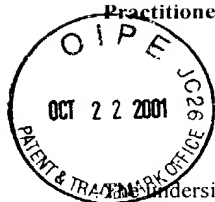
PTO/SB/02A (3-97)  
Approved for use through 9/30/98, OMB 0651-0032  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

|                    |  |
|--------------------|--|
| <b>DECLARATION</b> | <b>ADDITIONAL INVENTOR(S)</b><br>Supplemental Sheet<br>Page <u>2</u> of <u>2</u> |
|--------------------|--|

|  |                          |   |    |                        |       |             |          |
|--|--------------------------|---|----|------------------------|-------|-------------|----------|
| <b>Name of Additional Joint Inventor, if any:</b>              |                          | <input type="checkbox"/> A petition has been filed for this unsigned inventor |    |                        |       |             |          |
| Given Name (first and middle (if any))                         |                          |   |    | Family Name or Surname |       |             |          |
| Omar C.  |                          |   |    | Baldonado              |       |             |          |
| Inventor's Signature   | <i>Omar C. Baldonado</i> |   |    |                        |       | Date        | 10/12/01 |
| Residence: City  | Palo Alto                | State   | CA | Country                | US    | Citizenship | US       |
| Post Office Address<br>700 Alester Avenue, Palo Alto, CA 94303 |                          |   |    |                        |       |             |          |
| Post Office Address  |                          |   |    |                        |       |             |          |
| City   | Palo Alto                | State   | CA | ZIP                    | 94303 | Country     | US       |
| <b>Name of Additional Joint Inventor, if any:</b>              |                          | <input type="checkbox"/> A petition has been filed for this unsigned inventor |    |                        |       |             |          |
| Given Name (first and middle (if any))                         |                          |   |    | Family Name or Surname |       |             |          |
| Herbert S.   |                          |   |    | Madan                  |       |             |          |
| Inventor's Signature   | <i>Herbert Madan</i>     |   |    |                        |       | Date        | 10/12/01 |
| City   | Tiburon                  | State   | CA | Country                | US    | Citizenship | US       |
| Post Office Address<br>347 Blackfield Drive, Tiburon, CA 94920 |                          |   |    |                        |       |             |          |
| Post Office Address  |                          |   |    |                        |       |             |          |
| City   | Tiburon                  | State   | CA | ZIP                    | 94920 | Country     | US       |
| <b>Name of Additional Joint Inventor, if any:</b>              |                          | <input type="checkbox"/> A petition has been filed for this unsigned inventor |    |                        |       |             |          |
| Given Name (first and middle (if any))                         |                          |   |    | Family Name or Surname |       |             |          |
|  |                          |   |    |                        |       |             |          |
| Inventor's Signature   |                          |   |    |                        |       | Date        |          |
| City   |                          | State   |    | Country                |       | Citizenship |          |
| Post Office Address  |                          |   |    |                        |       |             |          |
| Post Office Address  |                          |   |    |                        |       |             |          |
| City   |                          | State   |    | ZIP                    |       | Country     |          |

**Burden Hour Statement.** This form is estimated to take 0.4 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO Commissioner for Patents, Washington, DC 20231.



**POWER OF ATTORNEY BY ASSIGNEE TO EXCLUSION OF INVENTOR  
UNDER 37 C.F.R. § 3.71 WITH REVOCATION OF PRIOR POWERS**

**COPY OF PAPERS  
ORIGINALLY FILED**

The undersigned ASSIGNEE of the entire interest in:

- ☐ U.S. Patent No. \_\_\_\_  
☒ U.S. application no. 09/903,441, filed on July 10, 2001

hereby appoints the following attorneys of Wilson Sonsini Goodrich & Rosati:

| Attorney Name    | Reg. No. | Attorney Name      | Reg. No. |
|------------------|----------|--------------------|----------|
| Paul Davis       | 29,294   | David J. Weitz     | 38,362   |
| Ofer Matalon     | 39,439   | U.P. Peter Eng     | 39,666   |
| David J. Abraham | 39,554   | George Willman     | 41,378   |
| Kenta Suzue      | 45,145   | Shirley Chen       | 44,608   |
| John Gilmore     | 46,375   | Jonathan T. Manson | 43,774   |
| Keith Witek      | 37,475   |                    |          |

and all Wilson Sonsini Goodrich & Rosati attorneys registered to practice before the United States Patent and Trademark Office, to prosecute this application and transact all business in the United States Patent and Trademark Office in connection therewith and hereby revokes all prior powers of attorney; said appointment to be to the exclusion of the inventors and the inventors' attorneys in accordance with the provisions of 37 C.F.R. § 3.71.

The following evidentiary documents establish a chain of title from the original owner to the Assignee:

*(complete one of the following)*

- ☒ a copy of an Assignment attached hereto, which Assignment has been (or is herewith) forwarded to the Patent and Trademark Office for recording; or
- ☐ the Assignment recorded on \_\_\_\_ at reel \_\_\_\_, frames \_\_\_\_ - \_\_\_\_.

Pursuant to 37 C.F.R. § 3.73(b) the undersigned Assignee hereby states that evidentiary documents have been reviewed and hereby certifies that, to the best of ASSIGNEE's knowledge and belief, title is in the identified ASSIGNEE.

Direct all correspondence and telephone calls to:

|         |                                    |           |                |     |                |                      |
|---------|------------------------------------|-----------|----------------|-----|----------------|----------------------|
| Name    | Kenta Suzue                        |           |                |     |                |                      |
| Address | Wilson Sonsini Goodrich and Rosati |           |                |     |                |                      |
| Address | 650 Page Mill Road                 |           |                |     |                |                      |
| City    | Palo Alto                          | State     | CA             | Zip | 94304          | Customer No.: 021971 |
| Country | USA                                | Telephone | (650) 493-9300 | Fax | (650) 493-6811 |                      |

ASSIGNEE: RouteScience Technologies, Inc.

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

# ASSIGNMENT OF APPLICATION

Docket Number 24717-705

Whereas, the undersigned

- 1 LEDDY, John G.  
Marblehead, MA 01947
- 2 LLOYD, Michael A  
San Carlos, CA 94070
- 3 FINN, Sean P.  
Belmont, CA 94002
- 4 MCGUIRE, James G.  
San Francisco, CA 94019
5. BALDONADO, Omar C.  
Palo Alto, CA 94304
6. MADAN, Herbert S  
Tiburon, CA 94920

hereinafter termed "Inventors", have invented certain new and useful improvements in

## ROUTING INFORMATION EXCHANGE

- ☒ for which an application for United States Patent was filed on July 10, 2001, Application No. 09/903,441  
☐ for which an application for a United States Patent was executed on     , and

WHEREAS, RouteScience, Technologies, Inc., having a place of business at 167 2<sup>nd</sup> Avenue, San Mateo, CA 94401, (hereinafter termed "Assignee"), is desirous of acquiring the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventors to have been received in full from said Assignee

1. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said application and said invention, (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications, and (d) in and to each and every reissue or extensions of any of said patents

2 Said Inventors hereby jointly and severally covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications, (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention, (d) for filing and prosecuting applications for reissuance of any said patents, (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.

3 The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, their respective heirs, legal representatives and assigns.

4 Said Inventors hereby jointly and severally warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignee as of the dates written below

Date: 10/15/01

John G Leddy  
John G Leddy

Date: 10/11/01

Michael A Lloyd  
Michael A Lloyd

Date: 10-11-2001

Sean P Finn  
Sean P Finn

Date: 10/12/01

James G McGuire  
James G McGuire

Date: 10/12/01

Omar C Baldonado  
Omar C. Baldonado

Date: 10/12/01

Herbert S Madan  
Herbert S. Madan